SONY

VPL-FH60

5,000 lumens WUXGA 3LCD installation projector

Overview

Bring presentations to life with impressive brightness and picture quality - plus easy, flexible integration and powerful picture features.

The VPL-FH60 installation projector is ideal for a wide range of business, education and entertainment applications. The energy-efficient High Pressure Mercury (HPM) lamp source is teamed with Sony's advanced BrightEra 3LCD projection engine, delivering extremely bright, detail-packed WUXGA resolution images with generous 5000 lumens brightness and rich, stable colours. Reality Creation and Contrast Enhancer technologes fine-tune image quality even further to assure exceptional clarity, realism and punch with every presentation.

With a stylish blend-in design, neat cable management and low fan noise, the VPL-FH60 integrates smoothly into almost any environment – from academic institutions, corporate, medical training and public sector organisations to visitor attractions and retail spaces. Easy set-up's assisted by a friendly new installation menu.

Features

- **Very high image quality with BrightEra 3LCD projection engine**

  The energy-efficient High Pressure Mercury (HPM) lamp source is coupled with Sony's acclaimed BrightEra 3LCD projection engine to ensure high 5000 lumen image brightness with vivid, natural colour reproduction.

- **Advanced picture refinement technologies**

  Picture quality is boosted by advanced processing featured on Sony home cinema projectors. Reality Creation uses a powerful pattern-matching database to optimise every pixel. Contrast Enhancer actively analyses and refines dark and light image areas for sparkling highlights and rich, deep blacks.

- **Crisp, detail-packed WUXGA resolution images**

  See the finest detail in PC presentations, videos or multimedia signage with WUXGA (1920 x 1200) 16:10 resolution.

- **Hassle-free automatic filter cleaning**

  Focus on great-looking images instead of arduous maintenance: automated filter cleaning system removes dust every 100 hours.

- **Energy-saving Lamp Dimming mode**

  Gradually reduces lamp brightness and power consumption without compromising picture quality when the projector isn't being actively used. As soon as it's needed, full brightness is restored instantly.

- **Powered Wide Lens Shift**

  Generous lens shift adjustments give more flexibility for positioning the projector where you need it: close to ceilings or even horizontally offset.

- **Included powered standard zoom lens plus wide choice of lens options**

  Installation flexibility is increased by a wide range of compatible lens options to suit virtually any size of room and throw requirements. New quick-release bayonet mount simpifies quick lens exchange.

- **Supports HDBaseT**

  Simpler, more cost-effective installation and connectivity with digital transmission of HD video, audio and networking/control over a single Ethernet cable.

- **Create super-size displays with Edge Blending**

  Seamlessly join accurately colour-matched images from multiple projectors, simplifying creation of stunning super-size displays for corporate and education.

- **Project onto non-flat surfaces with Image Warping**

  Easily correct image geometry for natural-looking projections, even on convex or concave surfaces. Corner and edge correction can be easily adjusted with the supplied remote and on-screen menu.

- **Quiet operation**

  Low fan noise ensures discreet, unobtrusive operation in quiet environments from museums and galleries to lecture theatres.

- **Slim, attractive new blend-in design**

  The slim, stylish case design features a flat top surface that blends in discreetly when the projector is ceiling

mounted. The clean appearance is accentuated by a new terminal cover that reduces cable clutter.

- **Choice of Picture Modes**

  New Picture Mode ensures great-looking presentations in a wide range of operating conditions. Select Standard, Dynamic, Brightness Priority or Multi Screen mode for optimised image quality, with any source and in every room.

- **Simple set-up with friendly new Installation menu**

  Easily adjust projector settings with remote commander, including image warping and edge blending.

- **Project Side by Side**

  Project images from two inputs at the same time: ideal for applications such as video conferencing and medical training where two images need to be seen simultaneously.

Technical Specifications

Display system	
Display system	3 LCD system

Display device	
Size of effective display area	0.76” (19 mm) x 3 BrightEra LCD Panel, Aspect ratio: 16:10
Number of pixels	6,912,000 (1920 x 1200 x 3) pixels

Projection lens *1	
Focus	Powered
Zoom - Powered/Manual	Powered (Approx. 1.6 x)
Throw ratio	1.39:1 to 2.23:1
Lens shift - Powered/Manual	Powered
Lens shift - Range Vertical	-5.0%, +60%
Lens shift - Range Horizontal	+/- 32%

Light source	
Type	Ultra high pressure mercury lamp
Wattage	280 W type

Recommended lamp replacement time *2	
Lamp mode: High	3000 H
Lamp mode: Low	4000 H

Filter cleaning / replacement cycle (Max.)*2	
Filter cleaning / replacement cycle (Max.)	20000 H (service maintenance)

Screen size	
Screen size	40" to 600" (1.02 m to 15.24 m) (measured diagonally)

Light output	
Lamp mode: High	5000 lm
Lamp mode: Standard	3200 lm

Color light output	
Lamp mode: High	5000 lm
Lamp mode: Standard	3200 lm

Contrast ratio (full white / full black) *3	
Contrast ratio (full white / full black)	2000:1

Displayable scanning frequency	
Horizontal	14 kHz to 93 kHz

Vertical	47 Hz to 93 Hz

Display resolution

Computer signal input	Maximum display resolution: 1920 x 1200 dots *4
Video signal input	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i The following items are available for digital signal (HDMI input) only; 1080/60P, 1080/50p, 1080/24p, 3840 x 2160/24p, 3840 x 2160/25p, 3840 x 2160/30p, 4096 x 2160/24p

Color system

Color system	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60

Keystone correction (Max.)

Horizontal	+/- 30 degrees
Vertical	+/- 30 degrees

OSD language

OSD language	24-language (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi, Finnish, Indonesian, Hungarian, Greek)

INPUT OUTPUT (Computer/Video/Control)

INPUT A	RGB / Y PB PR input connector: Mini D-sub 15-pin (female) Audio input connector: Stereo mini jack
INPUT B	DVI input connector: DVI-D 24-pin (single link), HDCP support Audio input connector: Shared with INPUT A
INPUT C	HDMI input connector: HDMI 19-pin, HDCP support Audio input connector: HDMI audio support
INPUT D	HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control)
VIDEO IN	Video input connector: BNC Audio input connector: Shared with INPUT A
OUTPUT A	Monitor output for INPUT A connector: Mini D-sub 15-pin (female) Audio output connector: Stereo mini jack
OUTPUT B	Monitor output for INPUT B connector: DVD-D 24-pin (single link), HDCP support Audio output Monitor out connector: Stereo mini jack
REMOTE	D-sub 9-pin (male) / RS232C
LAN	RJ-45, 10BASE-T/100BASE-TX
IR (Control S)	Stereo mini jack, Plug in power DC5V

Acoustic Noise

Lamp mode: High	35 dB
Lamp mode: Standard	29 dB

Operating temperature / Operating humidity

Operating temperature / Operating humidity	0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation)

Storage temperature / Storage humidity

Storage temperature / Storage humidity	-10°C to +60°C (14°F to +140°F) / 10% to 90% (no condensation)

Power requirements

Power requirements	AC 100 V to 240 V, 50 Hz / 60 Hz

Power consumption

AC 100 V to 120 V	Lamp mode: High: 429 W
AC 220 V to 240 V	Lamp mode: High: 416 W

Power Consumption (Standby Mode)	
AC 100 V to 120 V	0.5 W (when “Standby mode” is set to “Low”)
AC 220 V to 240 V	0.5 W (when “Standby mode” is set to “Low”)

Standby Mode / Networked Standby Mode Activated	
Standby Mode / Networked Standby Mode Activated	Approx. 10 Minutes

Heat dissipation	
AC 100 V to 120 V	1280 BTU/h
AC 220 V to 240 V	1242 BTU/h

Dimensions (W x H x D)	
Dimensions (W x H x D) (without protrusions)	Approx. 460 x 169 x 515 mm

Mass	
Mass	Approx. 13 kg (28 lb)

Supplied accessories	
Remote commander	RM-PJ27

Optional accessories	
Projection Lens	VPLL3007 / Z3009/ Z3024 / Z3032

Notes

- *1 With supplied standard lens.
- *2 This figure is expected maintenance time, not guaranteed time. The actual value depends on the environment and how the projector is used.
- *3 The value is average.
- *4 Available for VESA Reduced Blanking signal.

Accessories

Lamps

LMP-F280

Replacement Lamp for the VPL-F Series

Lenses

VPLL-3007

Projection Lens for the VPL-F Series

VPLL-Z3009

Short focus zoom lens

VPLL-Z3024

Projection Lens for the VPL-F Series

VPLL-Z3032

Long focus zoom lens

Other Accessories

IFU-WLM3

USB wireless LAN module

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